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(54) Wallpaper cutting device

(57) A wallpaper cutting device comprises a base 2 with a groove (4, Fig. 3) therealong, an arm comprised of two bars 3 with a slideway 3a therebetween pivoted to an end block 9 on the base, and a knife (5, Fig. 3) is mounted on a runner 6 with a handle 7 to run along the slideway with the knife projecting into the groove. The arm can be opened and closed hinges to clamp and release paper 1. The surfaces of the bars contacting the paper are lined with a high friction material 10. The knife may be a disc or have two sharp edges for cutting in both directions. The device may be incorporated into a cutting and pasting board or table. The bars 3 and base 2 may have curved clamping faces, Fig 6. The knife traverse may be power operated.

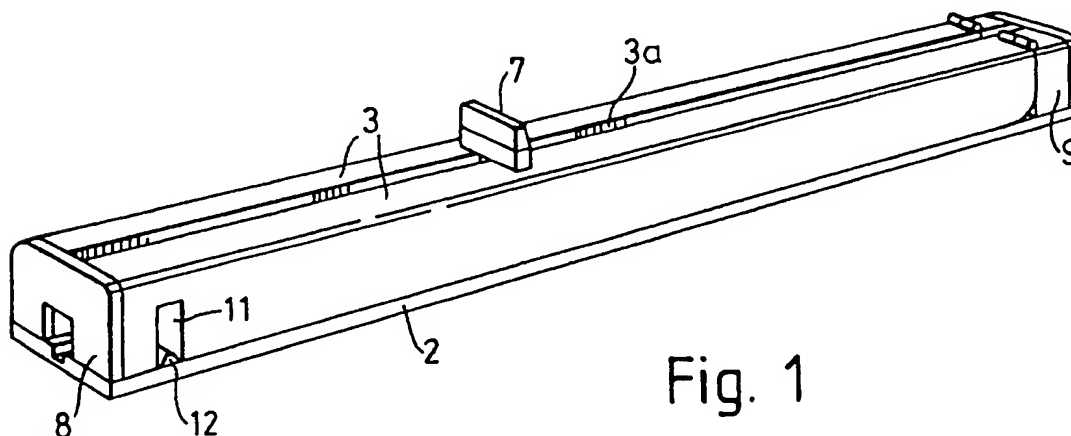
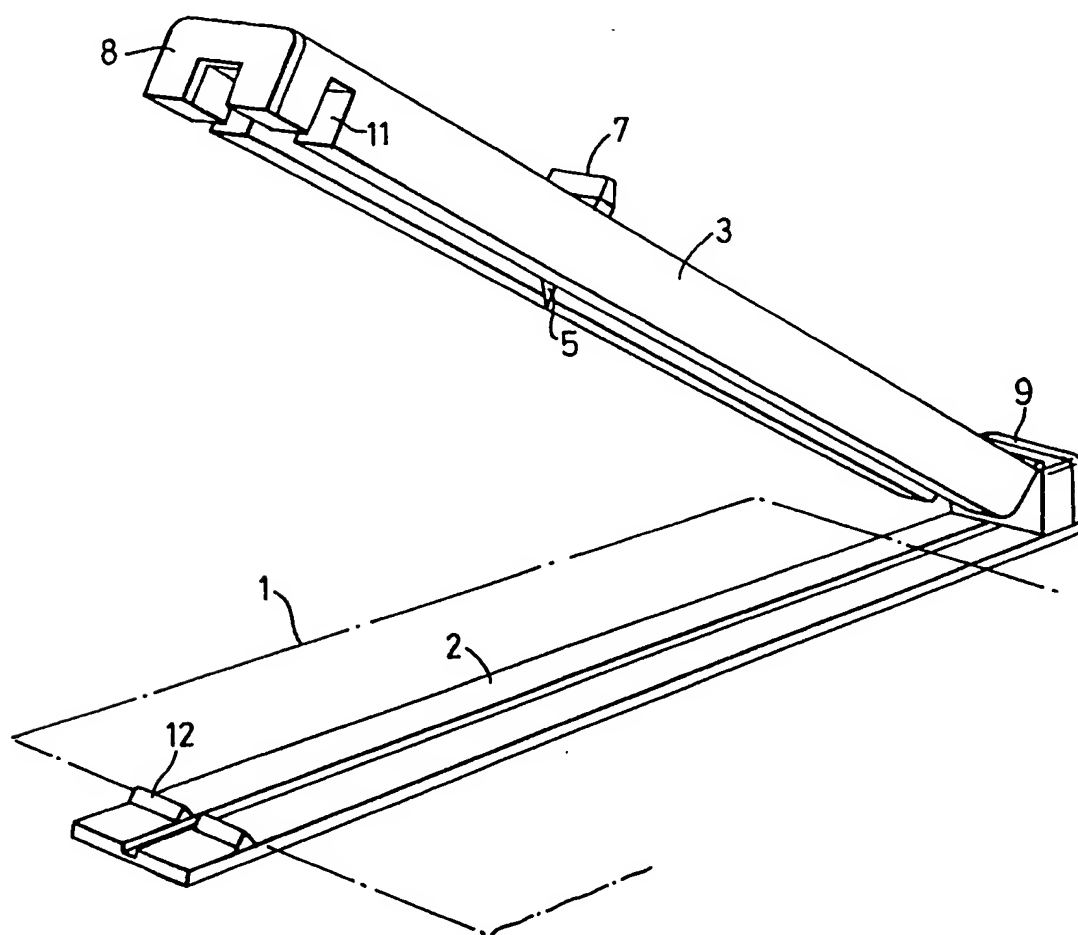
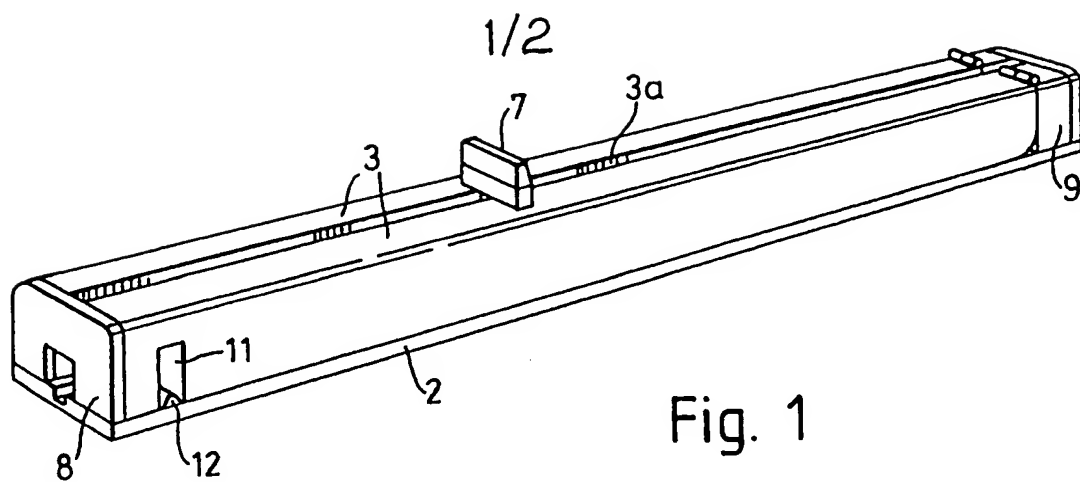


Fig. 1

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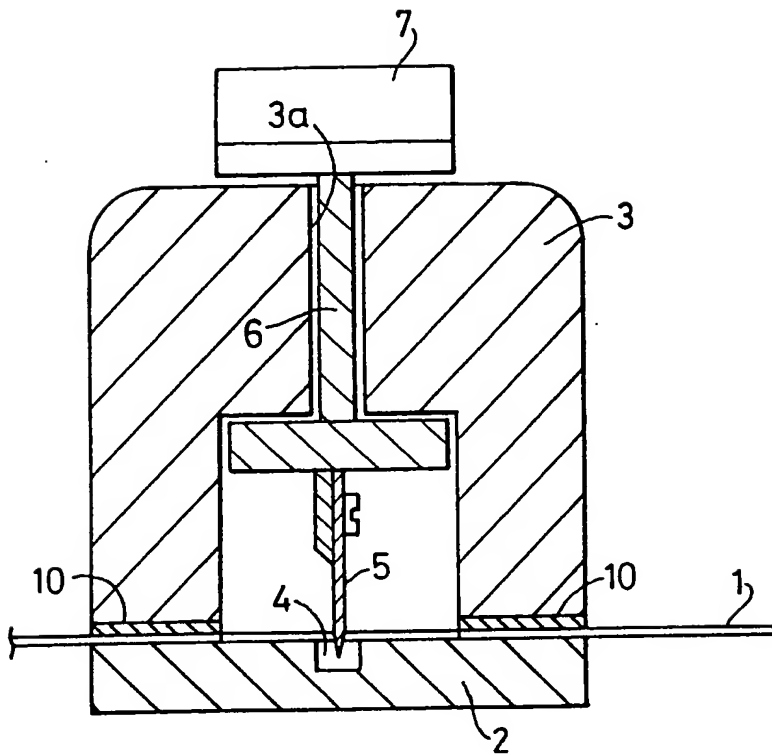


Fig. 3

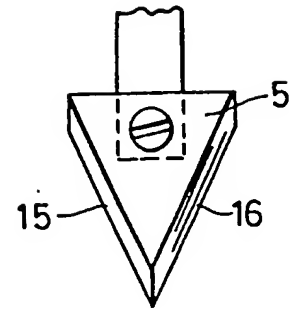


Fig. 4

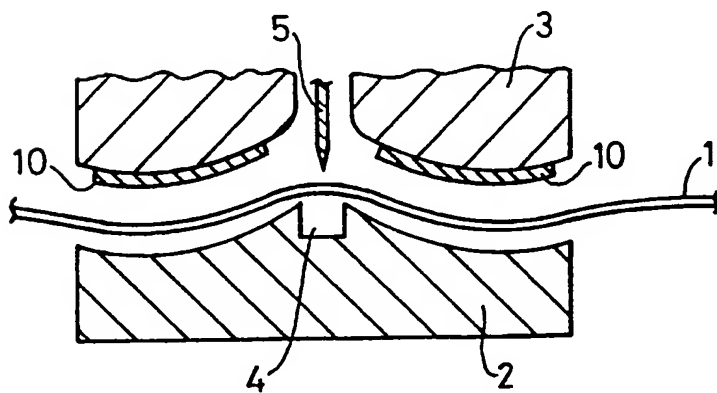


Fig. 6

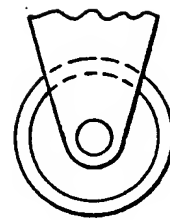


Fig. 5

Wallpaper Cutting Device

This invention relates to an improved wallpaper cutting device.

In decorating by hanging wallpaper, one problem encountered is to make a quick and accurately straight cut along the measured cutting line. It is usual to cut wallpaper after measuring with scissors, and if care is sacrificed to speed, the cut will probably not be straight. On the other hand, if care is taken the time used will be excessive, and even then the cut may be botched.

10 An object of the invention is to provide a wallpaper cutting device which will enable wallpaper to be cut quickly and accurately to a measured length.

According to the invention, a wallpaper cutting device comprises a knife mounted in guide means so as to be movable transversely across a piece of wallpaper along a measured cutting line, and means for clamping the paper to each side of the cutting line so that the paper is held under tension as the knife is moved transversely.

The device may be added as an attachment to a pasting board, or may be incorporated with a pasting board, but in a preferred embodiment is a separate easily portable device.

A groove or channel is preferably provided in a base below the knife along the path of the knife, so that the knife may extend below the plane of the paper without fouling the base.

25 The clamping means may comprise an arm made up of two elongated bars, one to each side of and defining a slide-way

for the knife, which can be lowered on hinges to grip the paper to each side of the groove, by friction with the paper between the bars and the base. As an alternative, an appropriate lever arrangement or spring loading may be used
5 to ensure a positive contact which prevents the paper from slipping. A felt or rubber or other high friction material may be used as a lining to help adhesion.

The bars preferably provide rails with a slideway therebetween extending across the base, which slideway
10 serves to guide a knife carrier. The rails and knife carrier may be provided with self-lubricating bearing surfaces of material such as PTFE..

A preferred embodiment of the invention will now be described by way of example with reference to the accompanying
15 drawings, wherein:-

Fig. 1 is a perspective view of a wallpaper cutting device according to the invention, closed;

Fig. 2 is a similar view of the device, open;

Fig. 3 is a cross-sectional view of the device of
20 Fig. 1;

Figs. 4 and 5 are side views of alternative forms of knife; and

Fig. 6 is a partial view, similar to the lower part of Fig. 3 of a modified embodiment.

25 The wallpaper cutting device shown in the drawings is a unit about two feet to 30 inches long (60 - 75 cm.), to accommodate standard width wallpaper (21 inches or 52cm.)

which can be placed on a table or work bench, and comprises a base 2 over which a measured piece of wallpaper 1 may be laid, with a measured cutting line aligned with a knife 5 over a channel 4 in the base. The knife 5 is carried by a screw in a recess in a blade carrier below a runner 6, which is movable along a slideway 3a between two transversely extending bars 3 forming an arm, and can be moved across the paper along the slideway by a handle 7. The arm is hinged to an end block 9, to be raised, as shown in Fig. 2, to enable a sheet of paper 1 to be introduced. The undersurfaces of the bars 3 serve to clamp the paper 1 at each side of the channel 4, when closed as in Figs. 1 and 3. The said undersides are provided with a friction material such as felt pads 10, to enhance adhesion with the paper 1.

15 In use the measured paper 1 is inserted below the arm (Fig. 2), and the measured marks aligned over the channel 4, e.g. with reference to index markings to each end of the base. The arm is swung down into contact with the paper, clamping the paper between the bars and the base 2. The knife 5 is then moved smartly across the base by moving the handle 7 across the slideway 3a, and this severs the paper under tension quickly, cleanly and along an accurately straight line.

A slide 12 is mounted on the base 2 to abutt the edge of the paper 1, and this is adjustable within the width of a channel 11 in the bars 3 of the arm.

Alternative forms of knife are shown in Figs. 4 and 5, a triangular knife 5 in Fig. 4 with a sharpened edge 15, 16

at each side, for a two way cutting action, so that it is not necessary to return the knife to make the next cut. In Fig. 5 a circular knife 17 is shown, which cuts with a continuous rotary action and is again useable in both
5 directions.

In Fig. 6, a modification of the base 2 and bars 3 is shown almost closed, wherein the undersides of the bars 3 are convexly curved, and the base 2 is formed with matching concave troughs running to each side of the groove 4, and
10 parallel thereto. The arm may be directly hinged to the base without an end block 9. This arrangement achieves an improved clamping effect. The blade is carried with its lower point above the level of the lowest parts of the undersides of the pads 10, but still enters the groove 4 when the arm is fully
15 closed.

Modifications and improvements of the device described by way of example are possible within the scope of the Claims. In particular the form and shape of the handle 7 may be changed. The arm may be operated by a lever system, or spring
20 loaded to give a positive grip while the bars are in contact with the paper. The knife traverse may be power operated, e.g. by a miniature electric motor, winding a capstan which pulls the runner 6 by a lanyard. Attachments may be provided to hold the roll of paper to the end of a paste table, such as
25 one or more spring clips. The cutting device may be provided on one end of a measuring and pasting board, with an end region of the board forming the base and having the groove parallel to the end of the board.

Claims

1. A wallpaper cutting device comprising a knife mounted in guide means so as to be movable transversely across a piece of wallpaper along a measured cutting line, and means for clamping the paper to each side of the cutting line so
5 that the paper is held under tension as the knife is moved across it.
2. A device according to Claim 1 wherein the knife is mounted to be slid along a slideway between elongated bars forming an arm hinged at one end to a base, having a groove
10 therein to allow passage of the blade, to trap the paper between the arm and the base, when the arm is closed against the base.
3. A device according to Claim 2 wherein the under face of the arm bars opposed to the base have a surface of high
15 friction material to improve adhesion with the paper.
4. A device according to Claim 2 or 3 wherein the knife is mounted in a runner for sliding in the slideway, with a blade adapted to project into the groove in the base when the arm is fully closed against the base, and the runner has a
20 handle which projects above the arm.
5. A device according to Claim 2, 3 or 4 wherein an edge stop is provided for the paper, which can be adjusted along the groove in the base, and a slot is provided in the arm to receive the stop when the arm is closed.
- 25 6. A device according to any preceding Claim with a single deged knife blade.

7. A device according to any one of Claims 1 to 5 with a knife having a double edged blade.
8. A device according to any one of Claims 1 to 5 wherein the knife has a circular rotatable blade, with a circumferential sharpened edge.
9. A device according to any preceding Claim appendant to Claim 2, or Claim 2, wherein the bars each have a convex undersurface, and the base is formed with matching concave surfaces to each side of the groove.
- 10 10. A pasting and cutting table or board, equipped with a wallpaper cutting device according to any preceding Claim.
11. A wallpaper cutting device substantially as hereinbefore described, with reference to and as illustrated in the accompanying drawings.

Amendments to the claims
have been filed as follows

1. A wallpaper cutting device comprising a knife mounted in guide means so as to be movable transversely across a piece of wallpaper along a measured cutting line, the guide means comprising a slideway between elongated bars forming an arm hinged at one end to a base, the base having a groove therein to allow passage of the blade which extends through the plane of the paper into the groove, the arm being operative to trap the paper between the arm and the base, clamping the paper at each side of the groove which coincides with the cutting line, so that the paper is held under tension as the knife is moved along the slideway when the arm is closed against the base.
2. A device according to Claim 1 wherein the under faces of the arm bars opposed to the base have a surface of high friction material to improve adhesion of the paper.
3. A device according to Claim 1 or 2 wherein the knife is mounted on a runner for sliding in the slideway, with a blade adapted to project into the groove in the base when the arm is fully closed against the base; and provided with a handle which projects above the arm.
4. A device according to any preceding Claim, wherein an edge stop is provided for the paper, which can be adjusted along the groove in the base, and a slot is provided in the arm to receive the stop when the arm is closed.
5. A device according to any preceding Claim with a single edged knife blade.

6. A device according to any one of Claims 1 to 4 with a knife having a double edged blade.
7. A device according to any one of Claims 1 to 4 wherein the knife has a circular rotatable disc blade, with a
- 5 circumferential sharpened edge.
8. A device according to any preceding Claim wherein the bars each have a convex under surface, and the base is formed with matching concave surfaces to each side of the groove.
- 10 9. A pasting and cutting table or board, equipped with a wallpaper cutting device according to any preceding Claim.
10. A wallpaper cutting device substantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.